

## Polyclonal Antibody to SUMO / SMT3 (C-term) - Purified

<b>Alternate names:</b>	GMP1, PIC1, Small ubiquitin-related modifier, UBL1, Ubiquitin-like protein SMT3, smo-1
<b>Catalog No.:</b>	AP11287PU-N
<b>Quantity:</b>	0.1 mg
<b>Concentration:</b>	0.25 mg/ml
<b>Background:</b>	<p>Covalent attachment of one protein to another is one of the more prominent posttranslational modifications in respects to size and ubiquity ? to which eukaryotic proteins are subject. Ubiquitin is the most familiar of the protein modifiers and its activation and transfer to target proteins has been studied for over two decades. Recently a new group of ubiquitin-like (Ubl) proteins have come to light. One of the most intriguing of them is SUMO (small ubiquitin-like modifier, ~12kDa) also known as Sentrin. SUMO family has been described in vertebrates: SUMO-1 and the closest homologs SUMO-2 and SUMO-3. SUMO have been shown to bind and regulate mammalian SP-RINGS (such as Mdm2, PIAS and PML), RanGAP1, RanBP2, p53, p73, HIPK2, TEL, c-Jun, Fas, Daxx, TNFRI, Topo-I, Topo-II, WRN, Sp100, Ikb-alpha, Androgen receptor (AR), GLUT1/4, Drosophila Ttk69, Dorsal, CaMK, yeast Septins, and viral CMV-IE1/2, EBV-BZLF1, HPV/BPV-E1. These bindings implicate SUMO in the stabilization of the target proteins and/or their localization to subcellular complexes. SUMO research enters now an exciting phase with a promise to help understanding how cells orchestrate the complexities of rapidly regulating protein level and activity.</p>
<b>Uniprot ID:</b>	<a href="#">P55853</a>
<b>NCBI:</b>	<a href="#">NP_490842.1</a>
<b>GeneID:</b>	<a href="#">266820</a>
<b>Host / Isotype:</b>	Rabbit / Ig
<b>Immunogen:</b>	This antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide selected from the C-terminal region of nematode SUMO.
<b>Format:</b>	<b>State:</b> Liquid purified Ig fraction. <b>Purification:</b> Protein G Chromatography, eluted with high and low pH buffers and neutralized immediately, followed by dialysis against PBS. <b>Buffer System:</b> PBS containing 0.09% (W/V) Sodium Azide as preservative.
<b>Applications:</b>	ELISA: 1/1,000. Other applications not tested. Optimal dilutions are dependent on conditions and should be determined by the user.
<b>Specificity:</b>	This antibody is specific to Nematode SUMO (C-term).
<b>Add. Information:</b>	Predicted MW: 10222 Da

**Storage:** Store the antibody undiluted at 2-8°C for one month or (in aliquots) at -20°C for longer.  
Avoid repeated freezing and thawing.  
Shelf life: one year from despatch.

**Caution:** This product is for research use only. Not for use in diagnostic or therapeutic procedures.

**General Readings:** 1. Fraser, A.G., et al., Nature 408(6810):325-330 (2000).  
2. Lapenta, V., et al., Genomics 40(2):362-366 (1997).